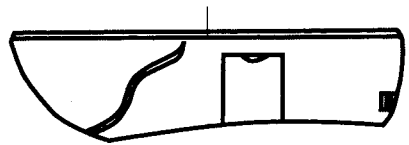
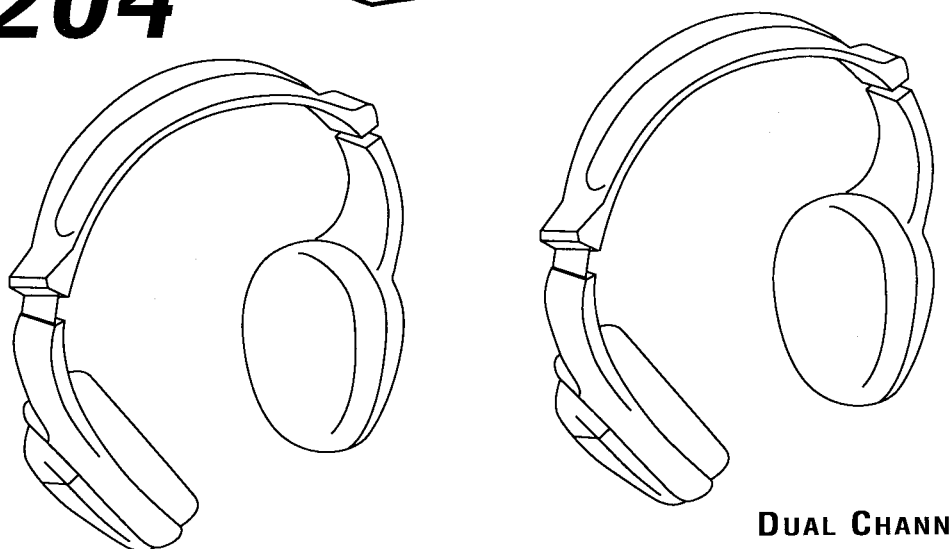
clarion®

WH204





DUAL CHANNEL STEREO
INFRARED HEADPHONES

OWNER'S MANUAL

INSTALLATION GUIDE

WARNING!

THE CLARION WH204 DUAL INFRARED HEADPHONES ARE DESIGNED FOR LISTENING TO VIDEO OR AUDIO SOURCES FOR REAR SEAT PASSENGERS ONLY.

THIS PRODUCT IS NOT INTENDED FOR USE BY THE DRIVER WHILE THE VEHICLE IS IN MOTION SINCE SUCH USE MAY DISTRACT THE DRIVER OR INTERFERE WITH THE DRIVER'S SAFE OPERATION OF THE VEHICLE AND MAY RESULT IN SERIOUS INJURY OR DEATH. SUCH USE MAY ALSO VIOLATE STATE LAW.

CLARION DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED USES OF THIS PRODUCT.

ABOUT INSTALLATION

Installation of mobile audio and video components requires experience with a variety of mechanical and electrical procedures. Even though this manual provides general installation and operation instructions for your new Clarion WH204 Dual Channel Infrared Headphones, it does not show the exact installation methods for your particular vehicle.

If you do not have the required knowledge and experience to successfully complete the installation, we strongly recommend consulting an authorized Clarion Pro Audio dealer about professional installation options.

TABLE OF CONTENTS

Introduction 2
Description Of Controls and Indicators 3
IR Transmitter Specifications 3
Description of Headphone Controls 4
Battery Installation 5
Operation Description 5
Operation Precautions 6
Installation Precautions 6
Mounting Description 7
Wiring Description 8
Troubleshooting 9
FCC Statement 9

INTRODUCTION

The Clarion WH204 is a full-featured Dual Channel Infrared Headphone System specifically created for the mobile environment. The WH204 frees you from the tangle of headphone wires and lets you enjoy music or TV audio without the clutter of cables. To ensure the best performance of your system, please read this manual carefully.

When used with the enclosed pair of individual headphones, the system allows independent source selection of two audio channels (ex: audio or video sources), each capable of playing a different high-fidelity stereo program. Each headphone allows for independent volume and source selection to provide individual and private listening.

Additional Headphones

The Clarion WH204 allows users to take full advantage of the benefits of infrared audio transmission and its ability to operate multiple headphones from one single transmitter. There is no need for Y-adapters, complex installation, or concerns over electrical overload. Additional headphones, ***WH204H***, are available through your local Clarion Audio Dealer.

Special Features

- Automatic Level Control prevents input signal over loading.
- Uses high frequency infrared light to assure a clean signal for clear reception.
- Power Indicator LED.
- Two Channel Input Operation.
- Auto Sensing ON/OFF Circuit.
- Independent Volume Controls.
- Independent A/B Channel Selection Switches.

About The Manual And Warranty

To start enjoying your new Clarion WH204 system, please read all remaining instructions listed in this manual. Keep all instructions for future reference.

This product is covered by a limited warranty (see the enclosed warranty card). **Save the sales receipt to protect your purchase and aid in warranty service.**

DESCRIPTION OF CONTROLS AND INDICATORS

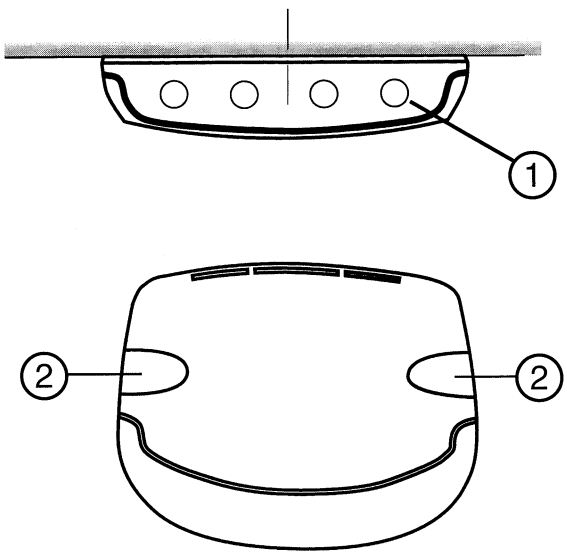


Figure 1. The WH204 Transmitter descriptions.

Infrared Transmitter

① IR Array window
Point Infrared LED array window toward users.

② Mounting hole locations (covers removed)
Use M4x12 sheet metal screws to attach IR Transmitter.
(see Mounting Description on page 7).

IR TRANSMITTER SPECIFICATIONS

General Specifications

Power Requirement:	12 volts dc
Power Consumption:	1 watt, Power On
Dimensions (*w x h x d*):	4.13 x 0.82 x 3.69 in.
Mounting Base	(104 x 21 x 94 mm)
Mounting Holes:	3.69 in.
(to centers)	(94 mm)
Supplied Accessories:	(2) M4x12 Sheet Metal Screws, (1) 5-pin Power/Channel A Molex, (1) 3-pin Channel B Molex (2) Plastic Screw cover inserts.

DESCRIPTION OF HEADPHONE CONTROLS

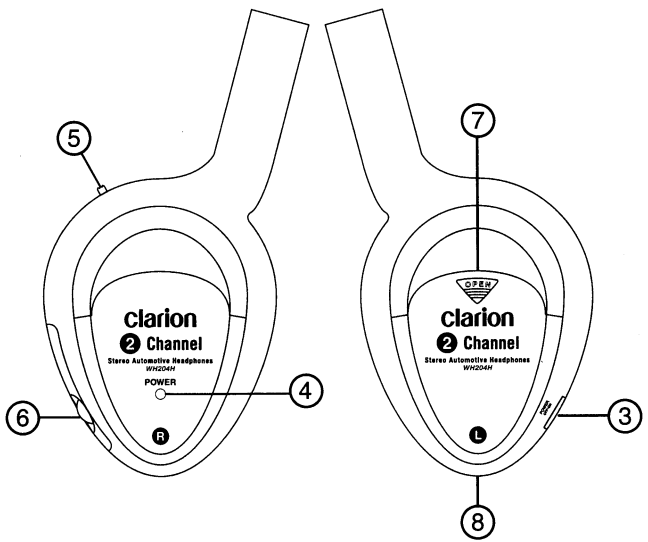


Figure 2. The WH204 IR Remote Headphone controls and indicators.

Infrared Headphones

③ POWER Switch
Allows user to turn On/Off the headphone.

④ POWER Indicator
When illuminated the headphones are fully functional. The indicator will turn off when the headphones are removed or when the power switch is turned off.

⑤ CHANNEL SELECTION A/B Switch
Allows user to choose the audio source.

⑥ VOLUME Control
Allows user to set individual listening levels.

⑦ BATTERY Compartment
Remove the cover and place 2 Alkaline AAA batteries in the compartment. *(See page 5 for information).*

BATTERY INSTALLATION

1. Open the battery compartment by sliding the cover toward the bottom of the Headphone.
2. Place two (2) alkaline AAA batteries into the battery compartment of the Headphones, making sure that the battery polarity is correct.
3. Snap the battery cover back into place.

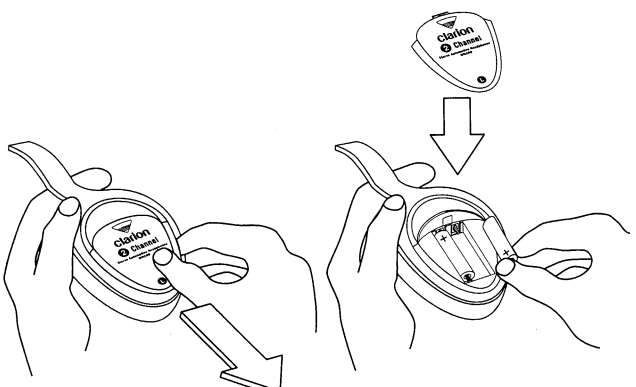


Figure 3. The Remote Headphone Battery Installation.

OPERATION DESCRIPTION

PLEASE READ CAREFULLY TO PREVENT DAMAGE TO THE HEADPHONES OR YOUR EARS.

1. Be sure batteries are properly installed in the Headphones.
2. Turn the Headphone volume nearly off before turing on the power switch.
3. Turn the Headphone power switch to the ON position.
4. Place the headphones on your head and the power indicator will illuminate.
5. Adjust the Headphone volume to a comfortable listening level.

Channel A/B Selection Switch

1. Select the appropriate channel from the desired audio source.

   NOTE: The switch can be changed while the headphones are in use, but a loud crackle or pop may be apparent.

OPERATION PRECAUTIONS:

- Do not allow liquids or foreign objects to enter the WH204 IR Transmitter or Headphones.
- If any unit should become wet, turn off all power and let your authorized Clarion Pro Audio dealer clean or service the equipment.

  DO NOT ATTEMPT TO OPEN OR SERVICE THE IR TRANSMITTER OR HEADPHONES. THE INTERNAL PARTS ARE NOT USER-SERVICEABLE. DOING SO WILL VOID THE WARRANTY.
- Do not drop or excessively jar the WH204 headphones.
- Do not use liquid cleaners on any surfaces. Only use a soft (cotton or other non-static) cloth to wipe off fingerprints.
- Do not subject the unit to direct sunlight or an extremely hot environment (e.g., closed windows on a hot summer day, direct path of heater vent, etc.).
- Avoid using the products under the following conditions:
  - After extended parking on an extremely hot or cold day
  - Near strong magnetic fields
  - In an environment with excessive humidity, dust, or vibration (e.g., off-road travel, etc.)

INSTALLATION PRECAUTIONS

- This unit operates on an automotive 12-volt negative ground power source and requires additional mobile audio and video components for proper operation.
- Before installation, disconnect the (–) negative lead from the vehicle's battery.
- Use only supplied screws and hardware. Make sure all connections and components are fastened securely.
- At the proposed installation sites, make sure there is adequate space to accommodate the WH204 IR Transmitter *(see Mounting on page 7).*
- Use extreme caution when drilling around electrical wiring, brake lines, and fuel lines. Check clearances on both sides of a planned installation surface before drilling

any holes or installing any screws.

- Always wear protective eyewear when using tools.
- Use only high-quality RCA cables that are no longer than necessary. Extra-length audio and video cables can cause signal loss and act as an "antenna" for noise.
- When routing RCA cables, keep them away from power cables and output speaker wires.
- If a fuse needs replacement, use the same value as the original. Do not substitute another rating.

MOUNTING DESCRIPTION

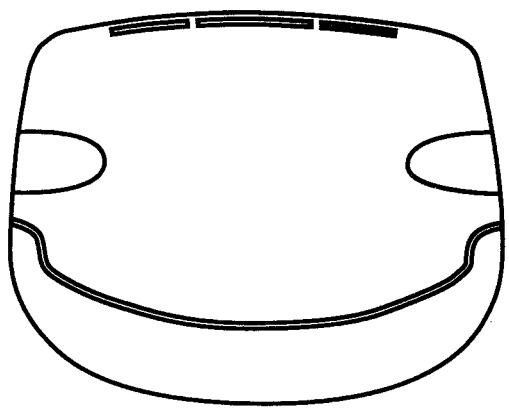


Figure 4. The WH204's input connectors and wiring.

WIRING DESCRIPTION

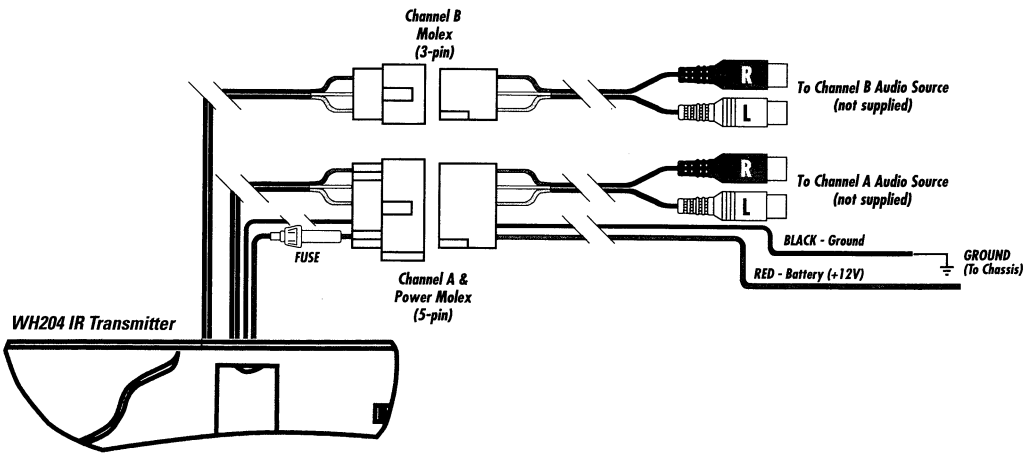


Figure 5. The WH204's input connectors and wiring.

TROUBLESHOOTING

Symptom	Cause	Solution
System does not work.	Fuse is blown.	Replace external fuse with the same value.
Headphones indicator illuminated but no sound.	Power wires not connected.	Check BATTERY and GROUND wiring at transmitter
No Power indicator on phones-	Batteries not inserted.	Insert (2) Alkaline AAA batteries into headphones.
	Battery polarity improper.	Insert batteries with proper polarity.
No sound from Headphones.	Wrong audio channel selected.	Select the proper audio channel *(see Page5).*

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be verified by turning the unit off and on, the user is encouraged to consult the dealer or an experienced radio/television technician for help.

P/N: R90820S105

Clarion Corporation of America
661 West Redondo Beach Blvd
Gardena, CA 90247
800-GO-CLARION
www.clarion.com

©2003 Clarion Corporation, Gardena, CA

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

P/N : R907000023